



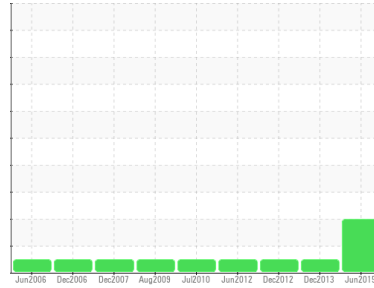
# PROBLEM SUMMARY

## Sample Rating Trend

ISO

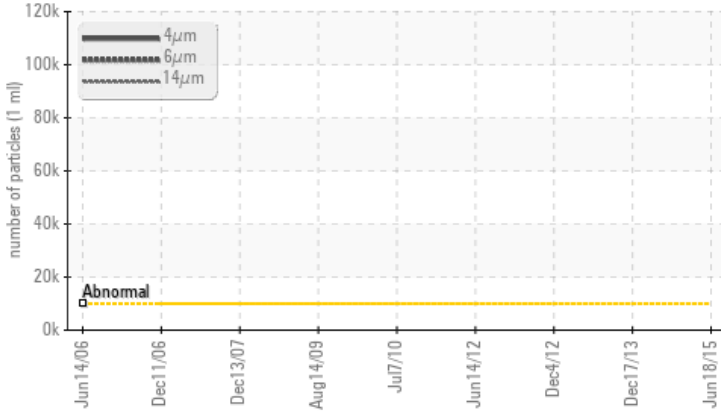


Area  
**[137520]**  
 Machine Id  
**HCT G1UGBR THBR**  
 Component  
**Bearing**  
 Fluid  
**ESSO TERESSO ISO 68 (95 LTR)**



## COMPONENT CONDITION SUMMARY

### Particle Trend



## RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

## PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	NORMAL	NORMAL
Particles >4µm	ASTM D7647	>10000	🔴 104713	---	---
Particles >6µm	ASTM D7647	>2500	🟡 16616	---	---
Particles >14µm	ASTM D7647	>160	🟡 409	---	---
Particles >21µm	ASTM D7647	>40	🟡 61	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/14	🔴 24/21/16	---	---

Customer Id: NEWSTJ  
 Sample No.: WC925448  
 Lab Number: 02003853  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Wes Davis +1 905-569-8600 x223  
[wesd@wearcheck.ca](mailto:wesd@wearcheck.ca)

To change component or sample information:  
 Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

**RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	Resample in 30-45 days to monitor this situation.
Check Breathers	MISSED	Aug 25 2016	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Seals	MISSED	Aug 25 2016	?	Check seals and/or filters for points of contaminant entry.

**HISTORICAL DIAGNOSIS**

**17 Dec 2013 Diag: Wes Davis**

**NORMAL**



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



**04 Dec 2012 Diag: Wes Davis**

**NORMAL**



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is no indication of any contamination in the component. The TAN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



**14 Jun 2012 Diag: Wes Davis**

**NORMAL**



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is no indication of any contamination in the component. The condition of oil is suitable for further service.

view report





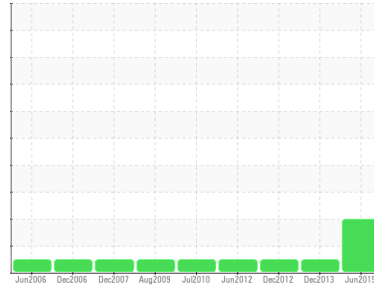
# OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area  
**[137520]**  
 Machine Id  
**HCT G1UGBR THBR**  
 Component  
**Bearing**  
 Fluid  
**ESSO TERESSO ISO 68 (95 LTR)**



## DIAGNOSIS

### Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

### Wear

All component wear rates are normal.

### Contamination

Particles >4µm are severely high. Particles >6µm are abnormally high. Particles >14µm are abnormally high. Particles >21µm are notably high. The water content is negligible.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC925448</b>	WC838265	WC837472
Sample Date	Client Info		<b>18 Jun 2015</b>	17 Dec 2013	04 Dec 2012
Machine Age	days	Client Info	<b>0</b>	0	0
Oil Age	days	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	Changed
Sample Status			<b>SEVERE</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>16</b>	8	10
Iron	ppm	ASTM D5185(m) >63	<b>2</b>	<1	<1
Chromium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m) >161	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m) >13	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m) >27	<b>4</b>	2	2
Antimony	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 4.5	<b>0</b>	<1	0
Barium	ppm	ASTM D5185(m) 0.4	<b>&lt;1</b>	1	<1
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Calcium	ppm	ASTM D5185(m) 0	<b>3</b>	<1	1
Phosphorus	ppm	ASTM D5185(m) 0.7	<b>4</b>	5	4
Zinc	ppm	ASTM D5185(m) 0	<b>3</b>	3	3
Sulfur	ppm	ASTM D5185(m) 1315	<b>1993</b>	2154	2203
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

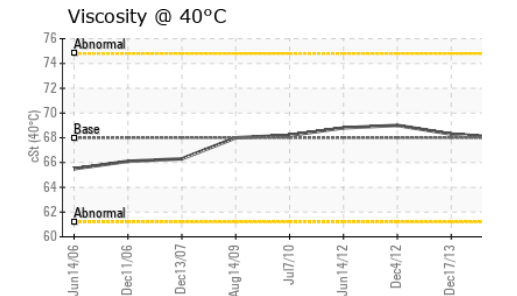
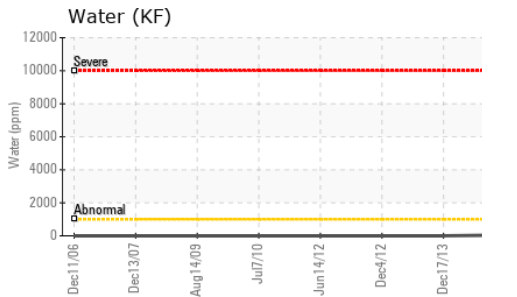
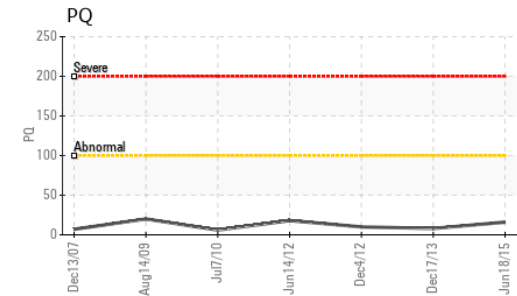
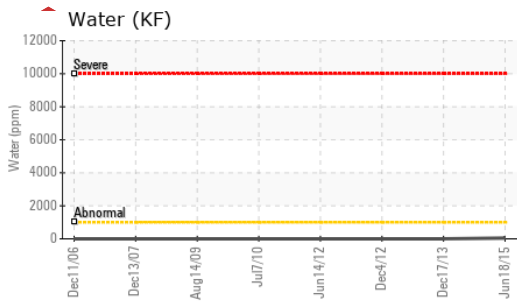
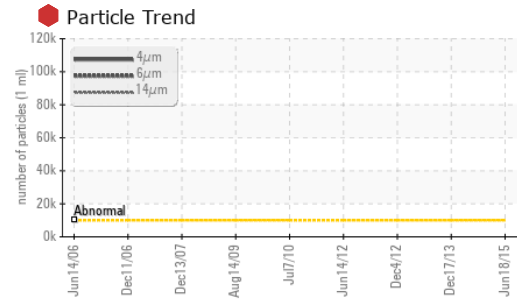
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >12	<b>2</b>	1	1
Sodium	ppm	ASTM D5185(m)	<b>3</b>	1	2
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	0
Water	%	ASTM D6304* >0.1	<b>0.004</b>	---	---
ppm Water	ppm	ASTM D6304* >1000	<b>44.6</b>	---	---

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>104713</b>	---	---
Particles >6µm	ASTM D7647	>2500	<b>16616</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>409</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>61</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>6</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/14	<b>24/21/16</b>	---	---



# OIL ANALYSIS REPORT

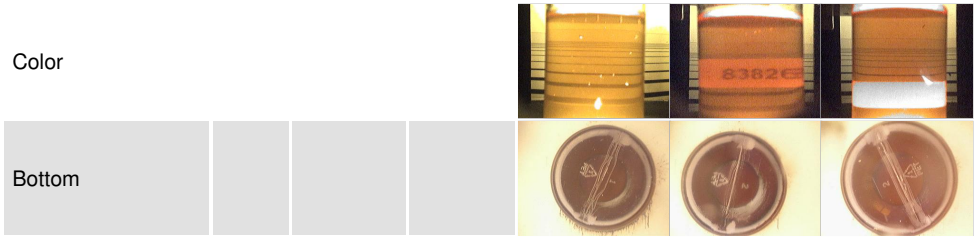


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	<b>0.096</b>	0.090	0.02

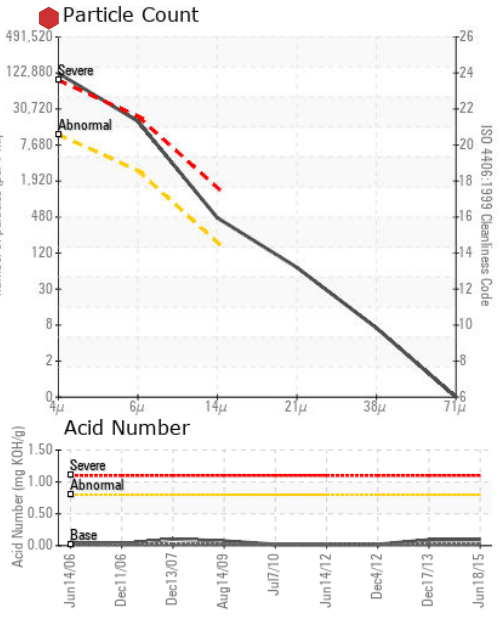
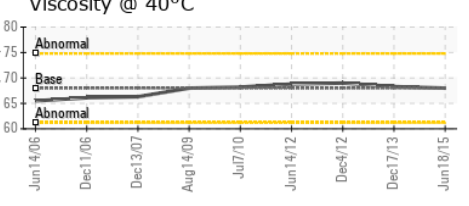
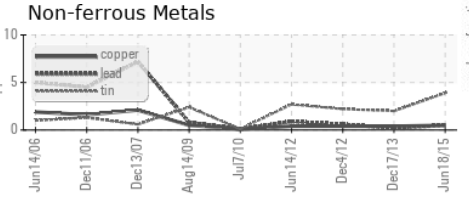
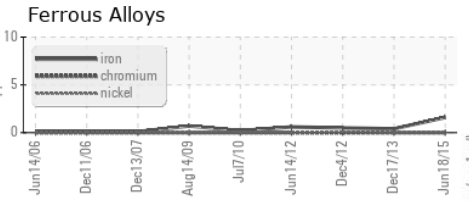
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>VLITE</b>	VLITE	VLITE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>.2%</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	68	<b>68.0</b>	68.3	69.0

## SAMPLE IMAGES



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC925448 **Received** : 24 Jun 2015  
**Lab Number** : **02003853** **Diagnosed** : 25 Jun 2015  
**Unique Number** : 4134081 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount, TAN Man )

**NEWFOUNDLAND POWER INC.**  
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 Contact: Shane Reid  
 sreid@newfoundlandpower.com  
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 F: (709)737-2926

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.